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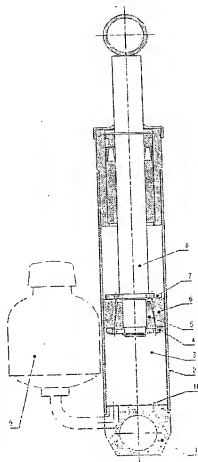
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(54) Title: HYDRAULIC VEHICLE SHOCK ABSORBER



(57) Abstract: A hydraulic shock absorber comprises a cylindrical chamber (3), which is closed at one end and in which is axially slidably guided a piston member (5), supported by a piston rod (8) and at its peripheral surface carrying a surrounding non-slotted elastic ring element (6), the peripheral piston member surface being conically converging in a direction away from the closed chamber end and the inner surface of the ring element also conically converging in the same direction, the ring element (6) furthermore being axially reciprocally mounted on the piston member (5) between a first rigid abutment (4) at the end of said member (5) closest to the closed end and (10) of the chamber (3), and a second rigid abutment (7) on the piston member (5) at a spacing from the first abutment (4) exceeding the axial length of the ring element (6). In order to increase the speed of response of the absorber the invention suggests that the two conical surfaces have mutually different conicity with core angles and diameters such selected that in an outward return movement of the piston member (5) the same is urged with its outer conical peripheral surface against the less conical inner surface of the surrounding ring element (6) and brings the first abutment (4) into engagement with yieldable element (6) while - at the same time - radially expanding the same so as to leave only a small intentional clearance for letting through hydraulic fluid between the outer surface of the ring element (6) and the inner surface of the cylinder.

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